

Stellation of strombic hexecontahedron

DEAR COLLEAGUE,

You are cordially invited to participate in the Conference 'Information and Structure in the Nanoworld' that will be held in the city of St.Petersburg, Russia on July 1-3, 2009 in the Insitute of Silicate Chemistry of the Russian Academy of Sciences.

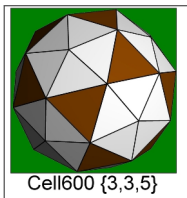
The Conference is intended to provide an arena for discussion of one of the most important part of the modern nanotechnology-related science - information conservation and processing in the Nanoworld, a world of beautiful and amazing structures and phenomena.

The Conference will gather scientists from different fields and experiences that will favor cross-discipline communication and fruitful discussions.

We are looking forward seeing you in St.Petersburg this summer!

IMPORTANT DATES

| | |
|--------------------------|-------------------|
| Abstract Submission | March 15, 2009 |
| Registration Fee (Early) | May 1, 2009 |
| Second Circular | June 1, 2009 |
| Manuscript Submission | September 1, 2009 |



ABSTRACTS AND PUBLICATIONS

GUIDELINES FOR ABSTRACT PREPARATION

Title: Times New Roman Bold 12 pts, centered
N.N. Author(s): 12 pts, centered
Authors affiliations: 12 pts, inclined, centered
E-mail: 12 pts, centered

Please underline the name of corresponding author. Please do not insert pictures and graphs into the text. Instead, please send it as an attached file (JPEG, TIFF, BMP or other widely accepted graphics format) together with your abstract submission [1].

[1] K.P. Jones, W. Noname & C. Cooper, «Nano», J. Phys. Chem., 122, 344-355 (2005).

EXAMPLE

Nanoscience: The Comedy of Errors

W. Shakespeare

Parish of St.Helen, Bishopsgate, Stratford, UK

E-mail: shakespeare@google.com

Sir, in my heart there was a kind of fighting that would not let me sleep... [1]

[1] W. Shakespeare, Hamlet, cited in: M. Wood, *Shakespeare*, N.Y.: Basic Books (2004).

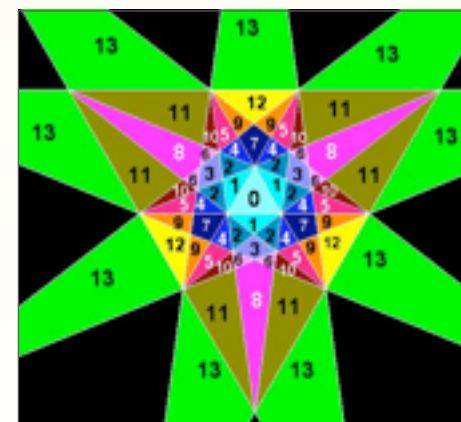
SPECIAL ISSUE OF «GLASS PHYSICS AND CHEMISTRY»

will be published based upon papers presented at the Conference. Please refer to
<http://www.maik.rssi.ru/cgi-bin/journal.pl?name=physglas&page=main>
 for more details

European Ceramic Society
 Russian Academy of Sciences
 Institute of Silicate Chemistry RAS

INFORMATION AND STRUCTURE

IN THE NANOWORLD





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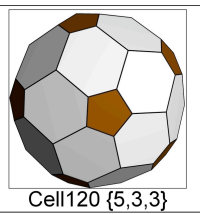
E. Tugova, T. Maslennikova, S. Yalymov

PLENARY LECTURES (INVITED)

to be compiled

SPONSORED BY

to be listed



MAIN TOPICS

NANOWORLD

Definition and properties; Coherency; The concept of inorganic gene

STRUCTURE AND GEOMETRY: APPLICATION OF MATHEMATICAL TECHNIQUES TO THE DESCRIPTION AND INTERPRETATION OF NANOSCALE STRUCTURES

Non-crystallographic symmetries; Non-Euclidean geometries; Exploration of high-dimensional space; Sphere packings; Sharp configurations; Spherical codes and designs; Nets and tilings; Minimal surfaces

INFORMATION TRANSFER IN THE NANOWORLD AND MODELS OF SELF-ASSEMBLY

Emergence of new configurations; Spontaneous self-organization; Cellular automata; Shape grammar; Languages of design; Complexity

NEW DISCOVERIES IN NANOCHEMISTRY: SUMMARY OF RECENT RESULTS

Nanoclusters; Nanocages; Building blocks; Nanoporous frameworks; Templates; Structural Hierarchies; Novel nanostructures; Architecture of metal-organic frameworks; Layers

COMPUTER MODELING IN NANOCHEMISTRY

Methods for modeling nanosystems; Program packages for analyzing structures of nanoparticles and crystals; Application of computer methods to the synthesis of new materials

INFORMATION AND STRUCTURES IN BIOLOGICAL NANOSTRUCTURES

Structure of Biological Nanoparticles; Information Transfer in Biological Nanostructures



LANGUAGE

Official language of the Conference will be English.

OFFICIAL TOUR-OPERATOR

For accommodation, transfers and visa support please contact our official operator S-Continental Company:

phone: +7 812 7176688, +7 812 7171944

fax: +7 812 3320091

e-mail: info@scontinental.com

<http://www.scontinental.com/eng/index.html>

REGISTRATION FEES

| | Early | |
|----------------------------------|----------|----------|
| Participant | 550 EUR | 650 EUR |
| Student | 150 EUR | 200 EUR |
| Accompanying Person | 150 EUR | 200 EUR |
| Russian Participant ¹ | 2500 rub | 3000 rub |
| Russian Student ² | 500 rub | 750 rub |

¹ Registration fees for Russian participants reduced thanks to the sponsorship of the Russian Academy of Sciences and the Russian Foundation for Basic Research.

² Students are required to enclose a copy of their student card (or a letter from their head of the department for post-graduated students).

CONTACT DETAILS

We will be happy to provide answers to your questions regarding the Conference via e-mails: nano2009@isc.nw.ru or ichsran@isc.nw.ru.

CONFERENCE WEBSITE

www.isc.nw.ru